Fig. 1

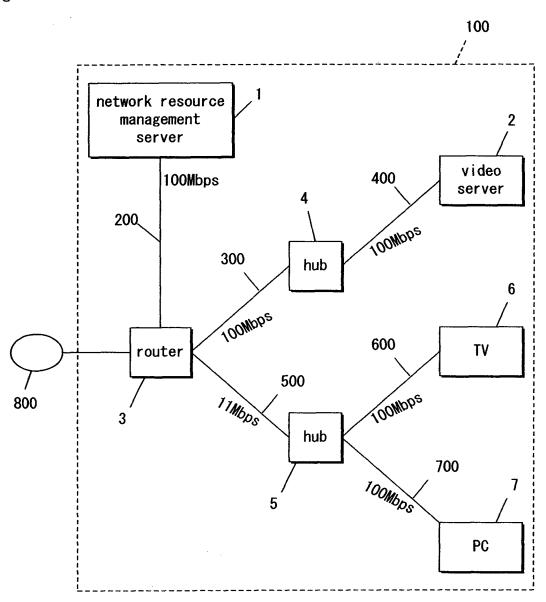
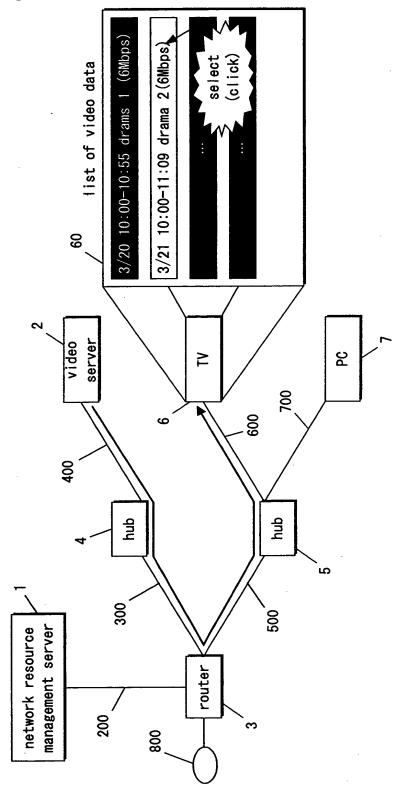


Fig. 2





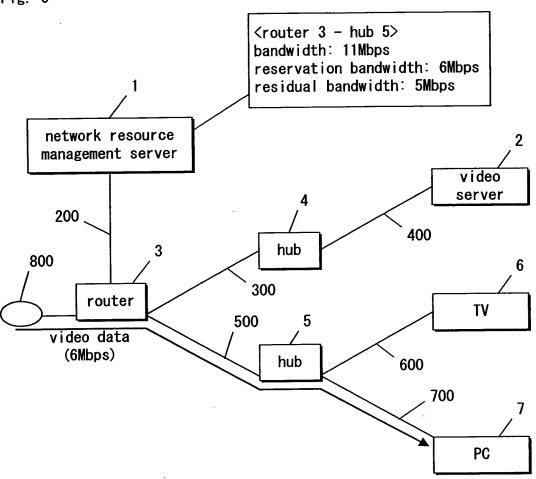
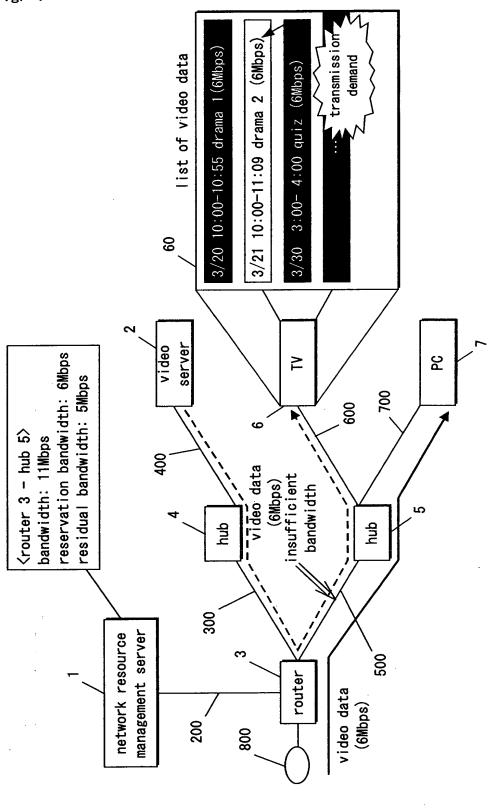


Fig. 4





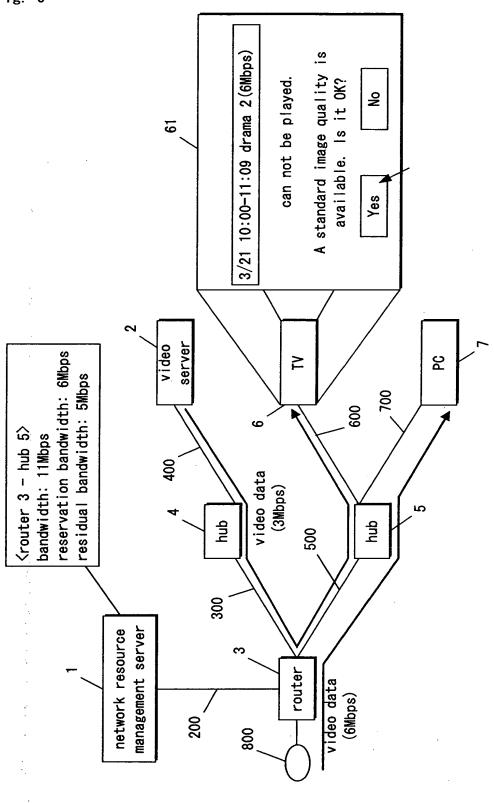
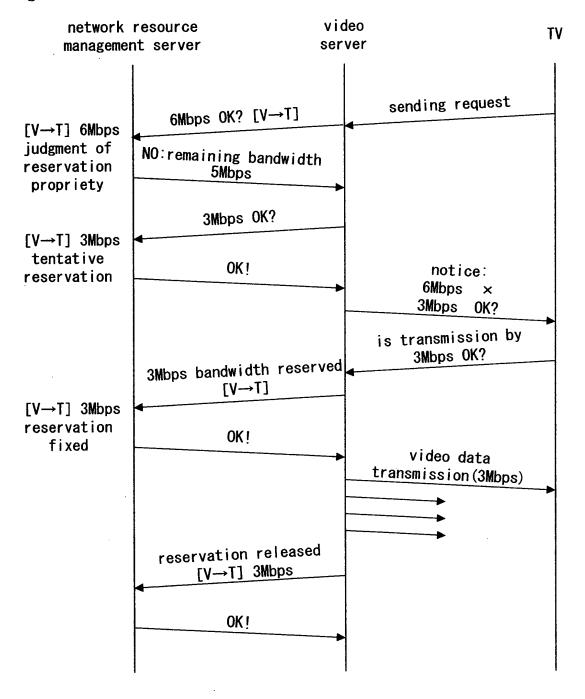


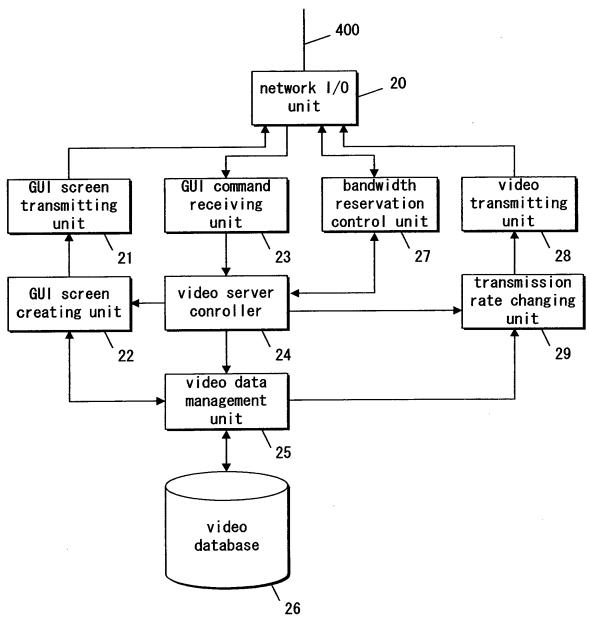
Fig. 6



V: video server

T: TV

Fig. 7





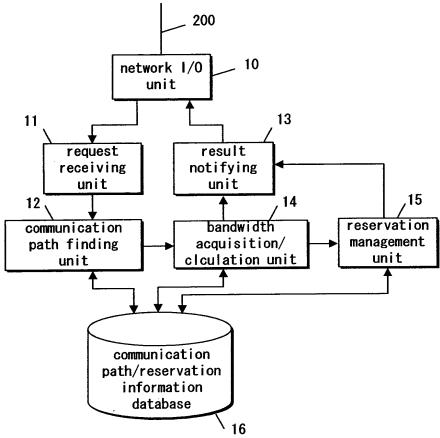
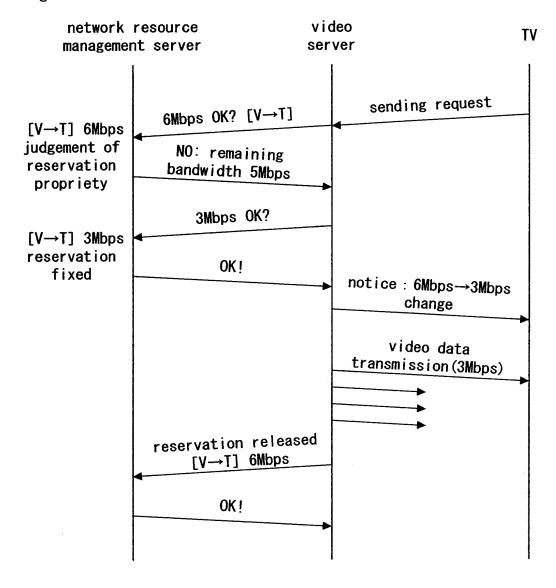


Fig. 9

	path		bandwidth	reservation bandwidth	residual bandwidth
video server 2	-	hub 4	100Mbps	OMbps	100Mbps
hub 4	-	router 3	100Mbps	0Mbps	100Mbps
router 3	-	hub 5	11Mbps	6Mbps	5Mbps
hub 5	-	TV 6	100Mbps	OMbps	100Mbps
hub 5		PC 7	100Mbps	6Mbps	94Mbps

Fig. 10



V: video server

T: TV

Fig. 11

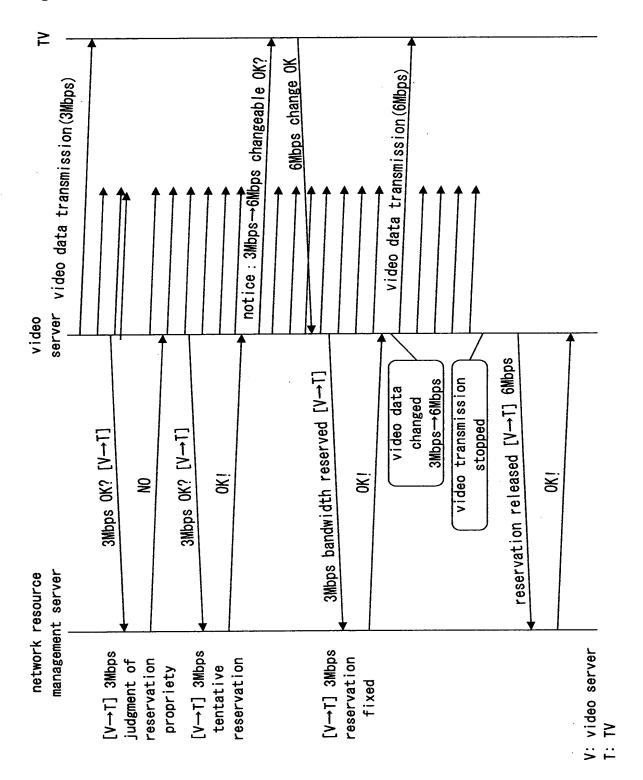
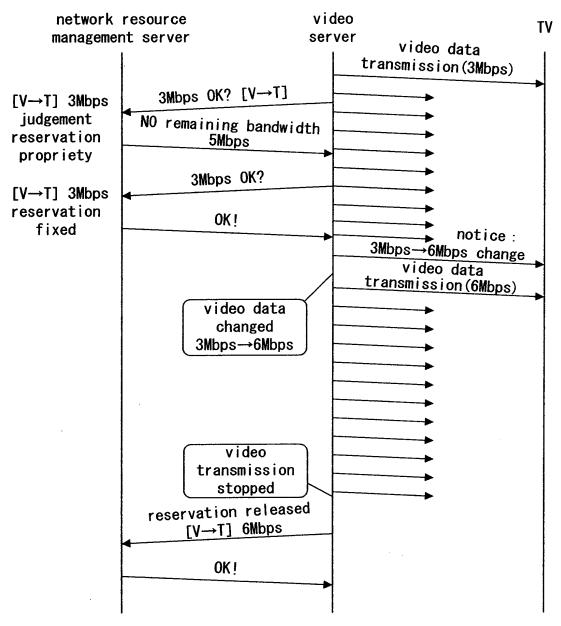


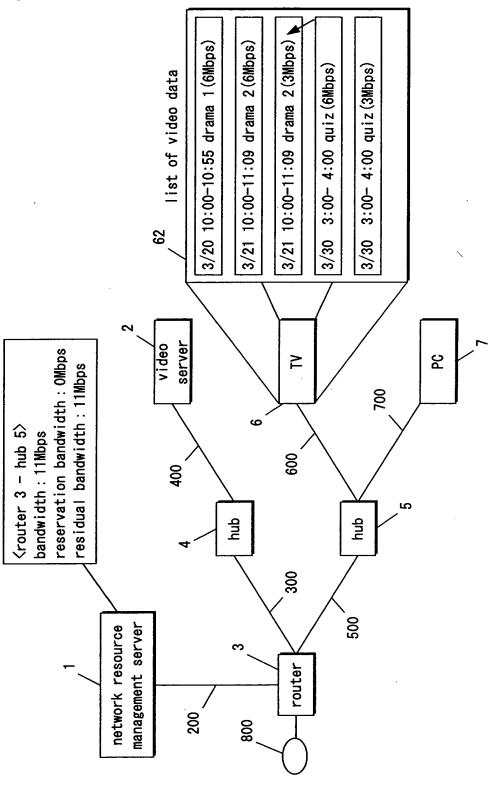
Fig. 12

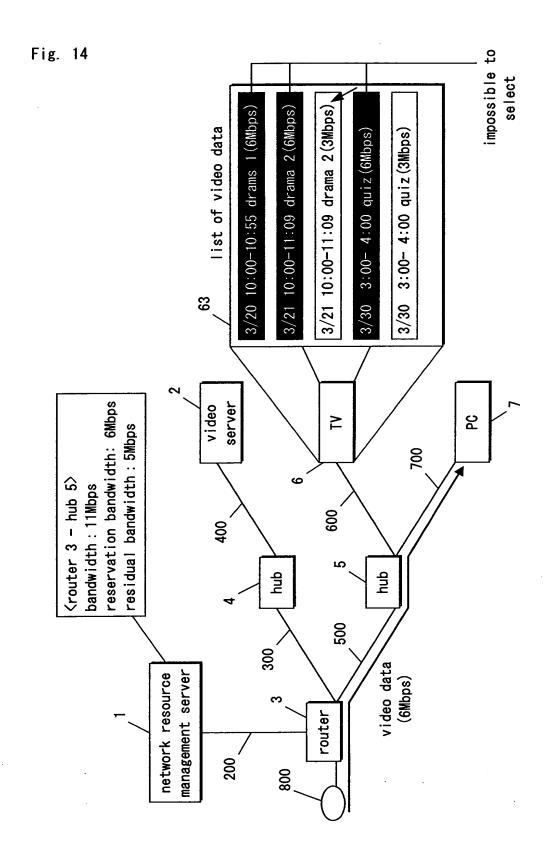


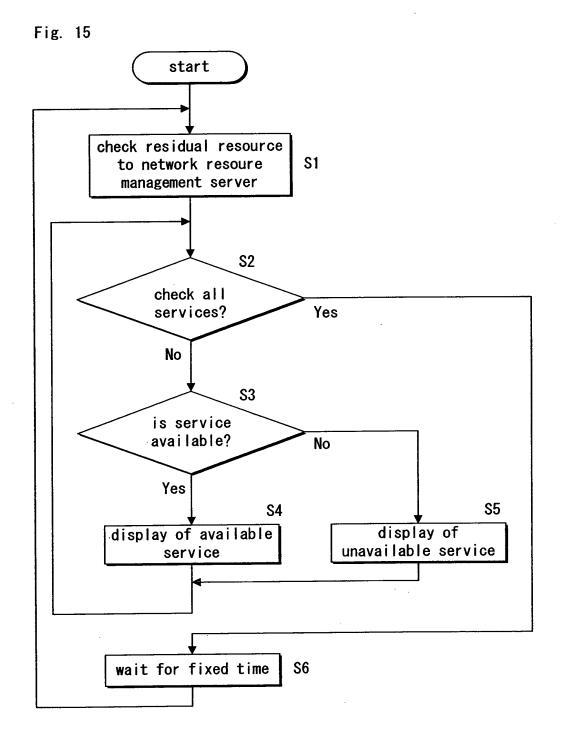
V: video server

T: TV











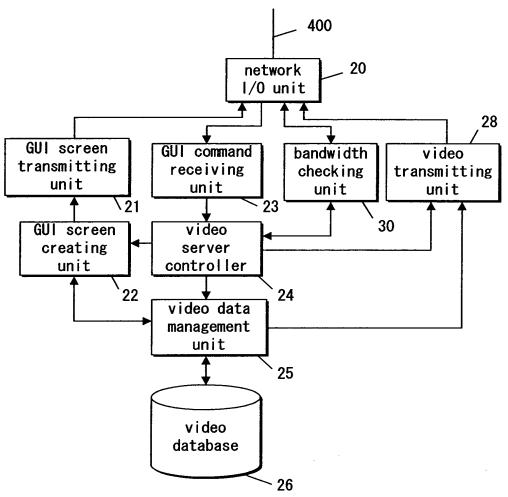


Fig. 17

	date time		title	quality
▷[3/20	22:00-22:55	drama 1	6Mbps
	3/21	22:00-23:09	drama 2	6Mbps
	3/23	16:00-17:00	animation 1	3Mbps
	3/27	22:00-22:55	drama 1	6Mbps
	3/30	16:00-17:00	animation 1	3Mbps

Fig. 18

date	time	title	quality
3/20	22:00-22:55	drama 1	6Mbps
3/21	22:00-23:09	drama 2	6Mbps
3/23	16:00-17:00	animation 1	3Mbps
3/27	22:00-22:55	drama 1	6Mbps
3/30	16:00-17:00	animation 1	3 M bps

Fig. 19

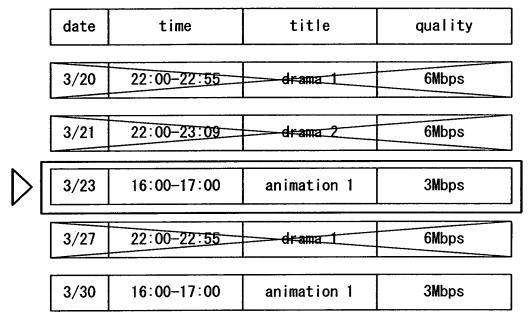


Fig. 20

	date	time	title	quality
\triangleright	3/23	16:00-17:00	amination 1	3Mbps
•	3/30	16:00-17:00	animation 1	3Mbps

Fig. 21

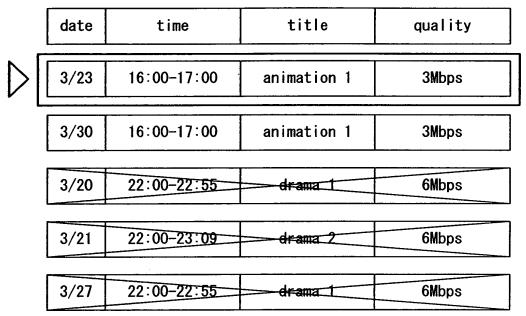
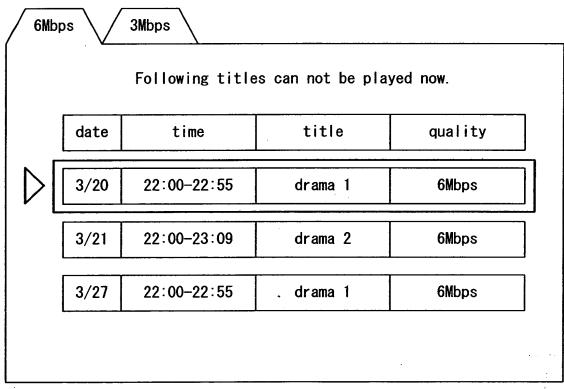


Fig. 22



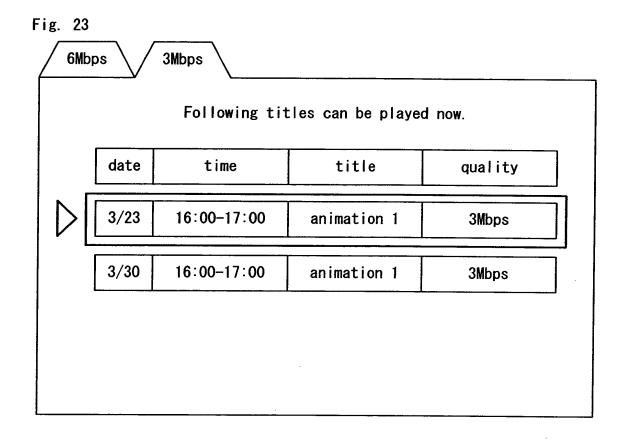


Fig. 24

date	time	title	preview
3/20	22:00-22:55	drama 1	
3/21	22:00-23:09	drama 2	
3/23	16:00-17:00	animation 1	
3/27	22:00-22:55	drama 1	

Fig. 25

	date	time	title	quality
	3/20	22:00-22:55	drama 1	6Mbps
	3/21	22:00-23:09	drama 2	6Mbps
_	3/23	16:00-17:00	animation 1	3Mbps
	3/27	22:00-22:55	drama 1	6Mbps
	3/30	16:00-17:00	animation 1	3Mbps

 $6\mbox{Mbps}$ service can not be provided by the shortage of bands

Fig. 26

	date	t	ime	t	itle	quality
	3/20	22:00)–22:55	dr	ama 1	6Mbps
	3/21	22:00)-23:09	dr	ama 2	6Mbps
	3/23	16:00	D-17:00	anim	ation 1	3Mbps
	3/27	22:00	0-22:55	dr	ama 1	6Mbps
	3/30	16:00	0-17:00	anim	ation 1	3Mbps
total bandwidth 11Mbps						
used bandwidth		6Mbps 3Mbps		service is available		

Fig. 27

			- 		
	date	time		title	quality
	3/20	22:00-22:	55 d	Irama 1	6Mbps
					1
	3/21	22:00-23:0	09 d	Irama 2	6Mbps
	3/23	16:00-17:0	00 ani	mation 1	3Mbps
. г					
\triangleright 1	3/27	22:00-22:	55 d	Irama 1	6Mbps
	3/30	16:00-17:0	00 ani	mation 1	3Mbps
			l		l
					1
t	otal ban	dwidth	11Mbp	S	
					·· <i>›</i>
u	ised band	dwidth	6Mbps	6Mbps	service is unavailable
		l			: unavarrabre

Fig. 28

	date	time	title	quality
	3/20	22:00-22:55	drama 1	6Mbps
	3/21	22:00-23:09	drama 2	6Mbps
D [3/23	16:00-17:00	animation 1	3Mbps
L	3/27	22:00-22:55	drama 1	6Mbps
	3/30	16:00-17:00	animation 1	3Mbps
	otal ban	two remaining services are available		

Fig. 29

	date	time	title	quality
	3/20	22:00-22:55	drama 1	6Mbps
	3/21	22:00-23:09	drama 2	6Mbps
	3/23	16:00-17:00	animation 1	3Mbps
	3/27	22:00-22:55	drama 1	6Mbps
_	3/30	16:00-17:00	animation 1	3Mbps
to	otal ban			
u	sed band	one remaining service is available		

Fig. 30

\ [date	time	title	quality
	3/20	22:00-22:55	drama 1	6Mbps
	3/21	22:00-23:09	drama 2	6Mbps
	3/23	16:00-17:00	animation 1	3Mbps
	3/27	22:00-22:55	drama 1	6Mbps
	3/30	16:00-17:00	animation 1	3Mbps

Fig. 31

	date	time	title	quality	
	3/20	22:00-22:55	drama 1	6Mbps	
	3/21	22:00-23:09	drama 2	6Mbps	
0	3/23 16:00-17:00		animation 1	3Mbps	
-	3/27	22:00-22:55	drama 1	6Mbps	
	3/30	16:00-17:00	animation 1	3Mbps	
	state of bandwing 3/11M	idth			